

PLANNING & PROGRAMMING DIVISION
PLANNING RESEARCH SECTION
TRAFFIC ANALYSIS UNIT

TAU 3561

T.H. 101

S.P. 2738-05, 8608-02, 7106-20

Between Jct. T.H. 94 at Rogers and

Jct. T.H. 10 and T.H. 169 Southeast of Elk River

Prepared: September, 1964

MINNESOTA HIGHWAY DEPARTMENT

U.S. DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

Office Memorandum

TO : T. S. Thompson

DATE: September 24, 1964

FROM : Johan Nygaard

SUBJECT: T.H. 101, S.P. 2738-05, 8608-02, 7106-20, Between Jct. T.H. 94 at Rogers and Jct. T.H. 10 and T.H. 169 Southeast of Elk River.

This report is transmitted in response to your August 28, 1964 request for 1986 ADT, DHV and HCA DT for the project location as shown on the map on page 2.

For each segment numbered on the map on page 3, the following data are tabulated on pages 4 and 5.

- Vehicle Type Distribution
- Total ADT
- Total Heavy Commercial ADT
- Total DHV Without Directional Distribution
- Directional Distribution of DHV

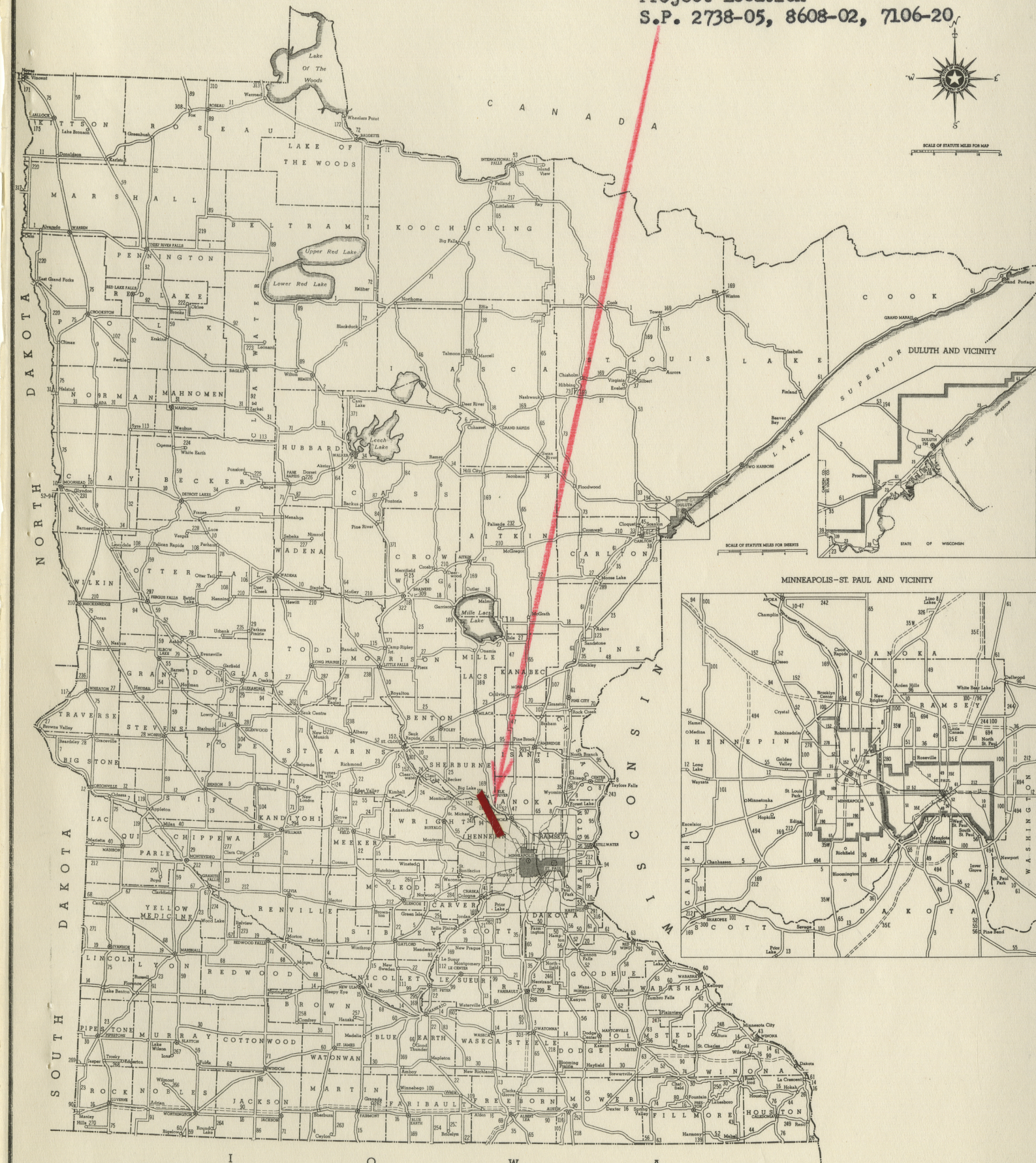
Basic data, method and assumptions required to prepare the 1986 traffic estimates are presented on page 6.

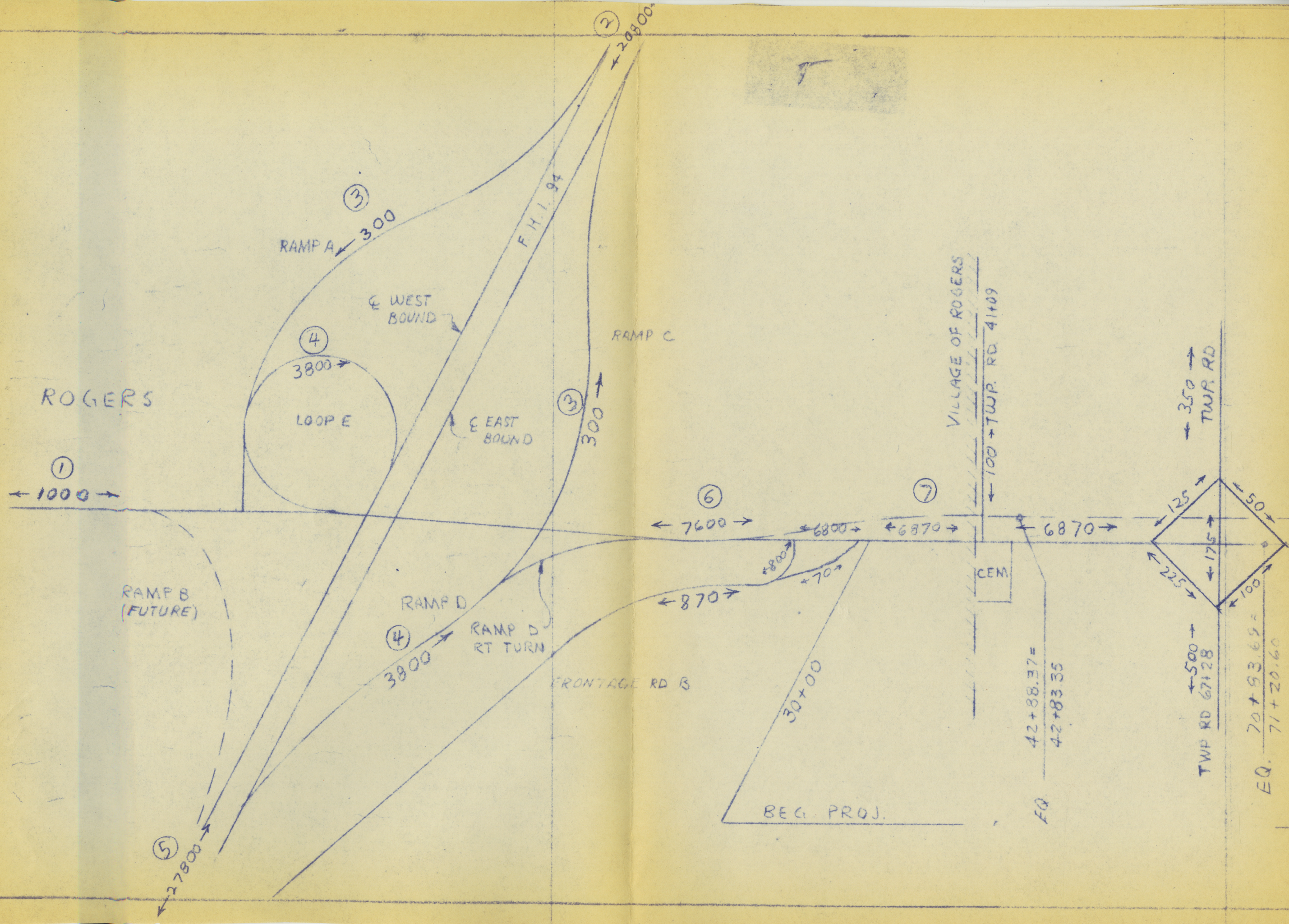
All the 1986 traffic volumes for segments 1 through 6 exactly agree with those transmitted in TAU 2480 transmitted August 4, 1964 for T.H. 94 from the West Hennepin County line to the junction of T.H. 494. The scope of the current request is for 1986 ADT for segments 7 through 13, of which segment 7 has the highest 1986 ADT. The 1962 ADT for segment 7 is 880 on the parallel traveled way of T.H. 101 and does not include the diversions to a completed T.H. 94, which were used in this analysis to obtain the 1986 ADT.

This request was initiated by B. L. Warzala for E. R. Larson, District Design Engineer.

Johan Nygaard

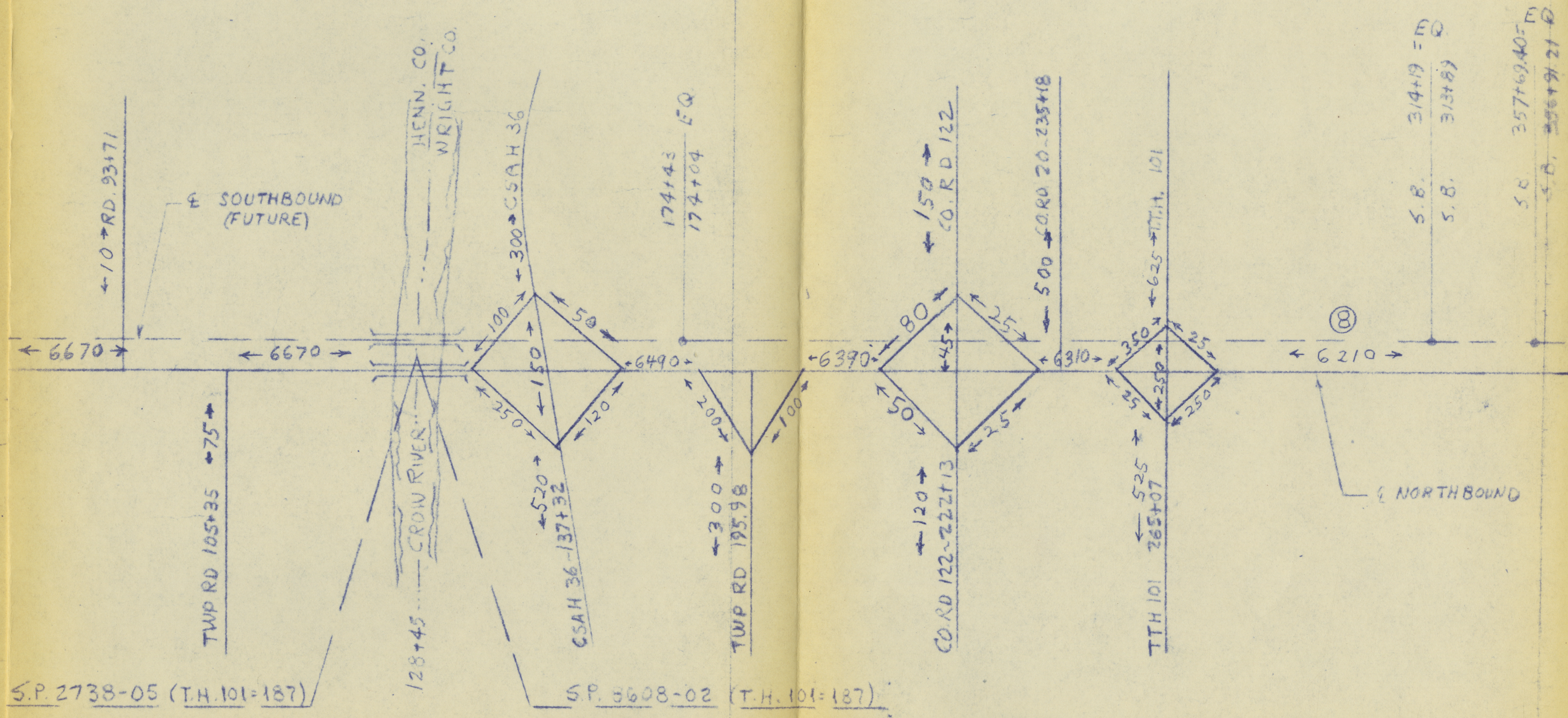
Project Location
S.P. 2738-05, 8608-02, 7106-20

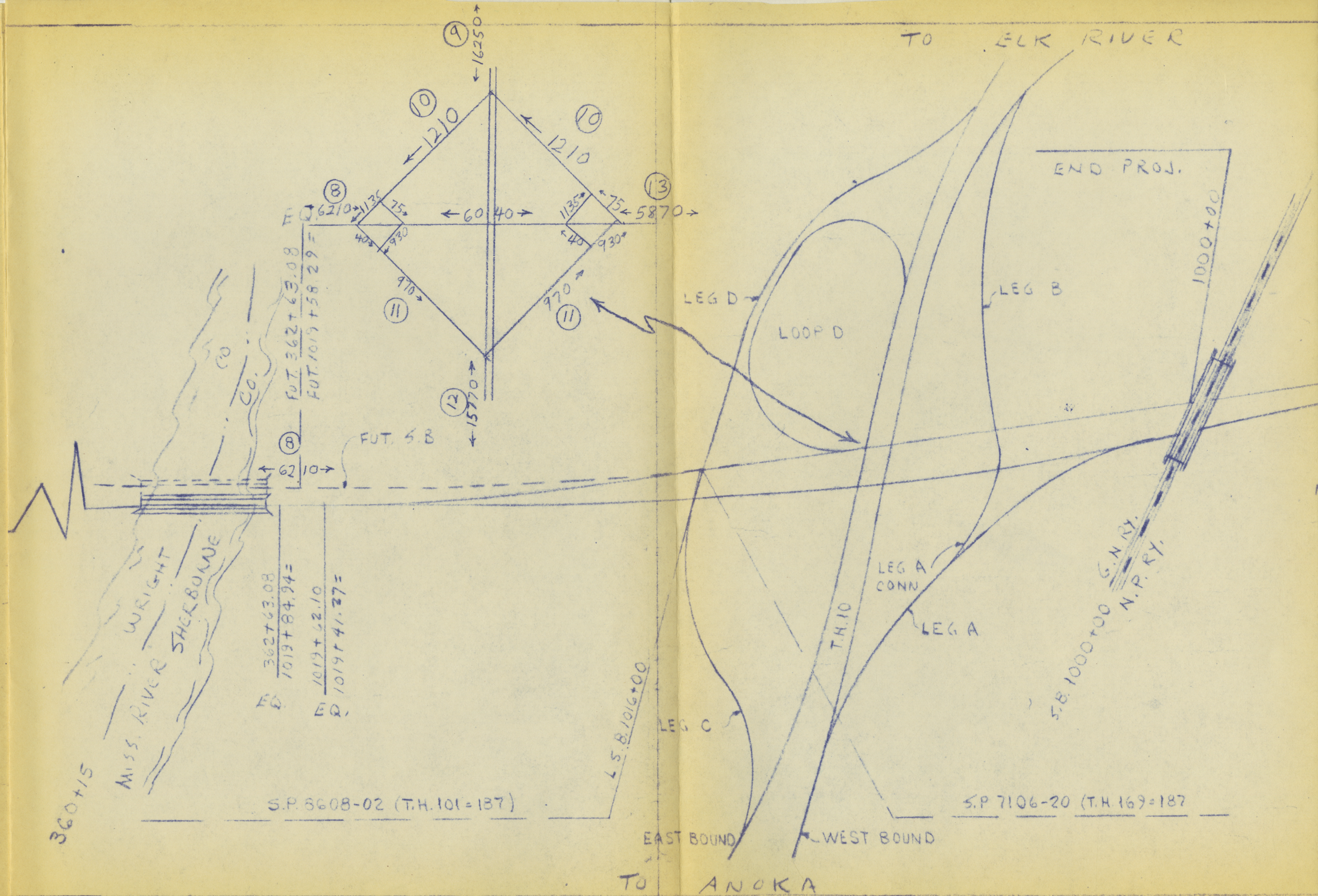




EQ.
$$\frac{42+88.37}{42+83.35} =$$

EQ.
$$\frac{70+93.69}{71+20.60} =$$





SOUTH BOUND

(13)
← 5870 → T.H. 169

NORTH BOUND



T.H. 101

S.P. 2738-05, 8608-02, 7106-20
Between Jct. T.H. 94 at Rogers
and Jct. T.H. 10 & T.H. 169

Southeast of Elk River

Legend

1986 ADT 5870
Segment Number (13)

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1986 PART 1 OF 2

FOR

T.H. 101 S.P. 2738-05, 8608-02, 7106-20 LENGTH - MILES
COUNTY Hennepin, Wright, Sherburne LOCATION Between Jct. T.H. 94 at Rogers
and Jct. T.H. 10 and T.H. 169 Southeast of Elk River

BASED ON

1986 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	924	18722	271	3529	25238	7052	6376	5763	8139	1066	854
1	20	718	7	92	888	186	168	152	197	40	32
2	18	310	6	24	346	50	45	41	93	38	26
3	6	126	3	18	156	36	32	29	146	10	10
4	10	292	4	39	362	80	72	65	250	14	12
5	16	536	6	71	666	142	128	116	323	36	23
6	6	96	3	27	144	54	49	44	112	6	13
TOTAL ADT	1000	20800	300	3800	27800	7600	6870	6210	9260	1210	970
TOTAL H. COMM. ADT	76	2078	29	271	2562	548	494	447	1121	144	116
TOTAL DHV	121	3307	36	456	4147	844	804	819	1574	138	113
DIRECTIONAL DISTRIBUTION	60-40	65-35	100-0	100-0	65-35	60-40	60-40	60-40	60-40	100-0	100-0

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1986 PART 2 OF 2

FOR

T.H. 101 S.P. 2738-05, 8608-02, 7106-20 LENGTH - MILES
COUNTY Hennepin, Wright, Sherburne LOCATION Between Jct. T.H. 94 at Rogers
and Jct. T.H. 10 and T.H. 169 Southeast of Elk River

BASED ON

1986 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 13 AS
DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	12	13									
0	7715	5447									
1	181	144									
2	69	39									
3	146	27									
4	246	61									
5	297	110									
6	126	42									
TOTAL ADT	8780	5870									
TOTAL H. COMM. ADT	1065	423									
TOTAL DHV	1524	780									
DIRECTIONAL DISTRIBUTION	60-40	60-40									

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
2 = SINGLE UNIT-3 AXLE TRUCKS
3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
6 = BUSES AND TRUCKS WITH TRAILERS

Basic Data, Method and Assumptions

The 1986 ADT for the project reflects all diversions to a completed Interstate System and agrees with the 1965 104b(5) study for the intersection of T.H. 101 with T.H. 94.

The DHV for the project is assumed to be similar to that recorded by continuously operated traffic counting machines located on T.H. 169 at Onamia and T.H. 10 at Royalton because expected future travel on T.H. 101 is expected to largely consist of diverted travel from the Mille Lacs Lake and Brainerd areas.

The HCADT for the project is mostly based on a projected study of the origins and destinations of commercial vehicles encountered at a truck interview location situated on T.H. 10 between Anoka and Elk River.